RRM Strategies in LTE&WiMAX Interworking System

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The future trend in wireless communications will bring a ubiquitous 4th generation (4G) network allowing connecting from anywhere and anytime. This would be provided by a variety of radio access technologies (RATs) cooperating with each other and offering different classes of services including high quality streaming video. In order to provide those demanding real-time multimedia and very high data rates, scarce radio resources must be used effectively to maximize the channel utilization. The presentation will focus on scheduling techniques possibly adaptable to dynamically changing network, that could be applied in 4G systems (LTE interworking with WiMAX is considered). Furthermore, it will also discuss the Radio Resource Management (RRM) problem addressing the challenges of designing a RRM system for such a multi-RAT wireless environment. Different functionalities and possibilities of implementation will be taken into account.